AIR FORCE SPECIAL OPERATIONS COMMAND

Quiet Professionals

AFSOC DMO UPDATE

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AFSOC Modeling & Simulation Support

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Unclassified

This Briefing Is: UNCLASSIFIED
Classified by:
Reason:
Declassify on:

Please secure all pagers, cell phones and other portable electronic devices

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MISSION

EMPLOY A JOINT FORCE ON A POLITICALLY, AND/OR MILITARILY SENSITIVE TARGET IN ORDER TO IDENTIFY AND RECOVER RESOURCES VITAL TO U.S. NATIONAL INTEREST

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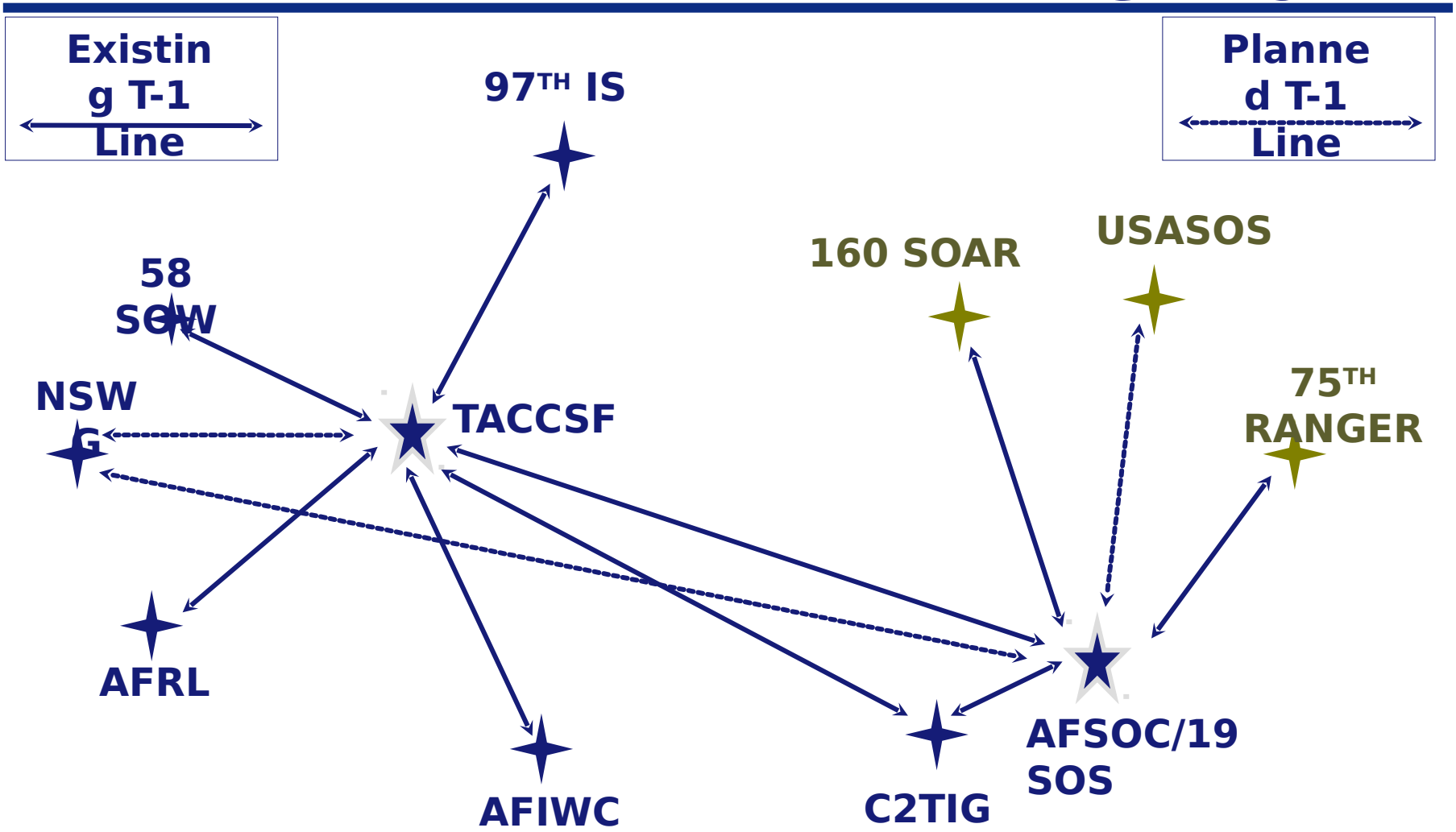
Existing & Proposed Network



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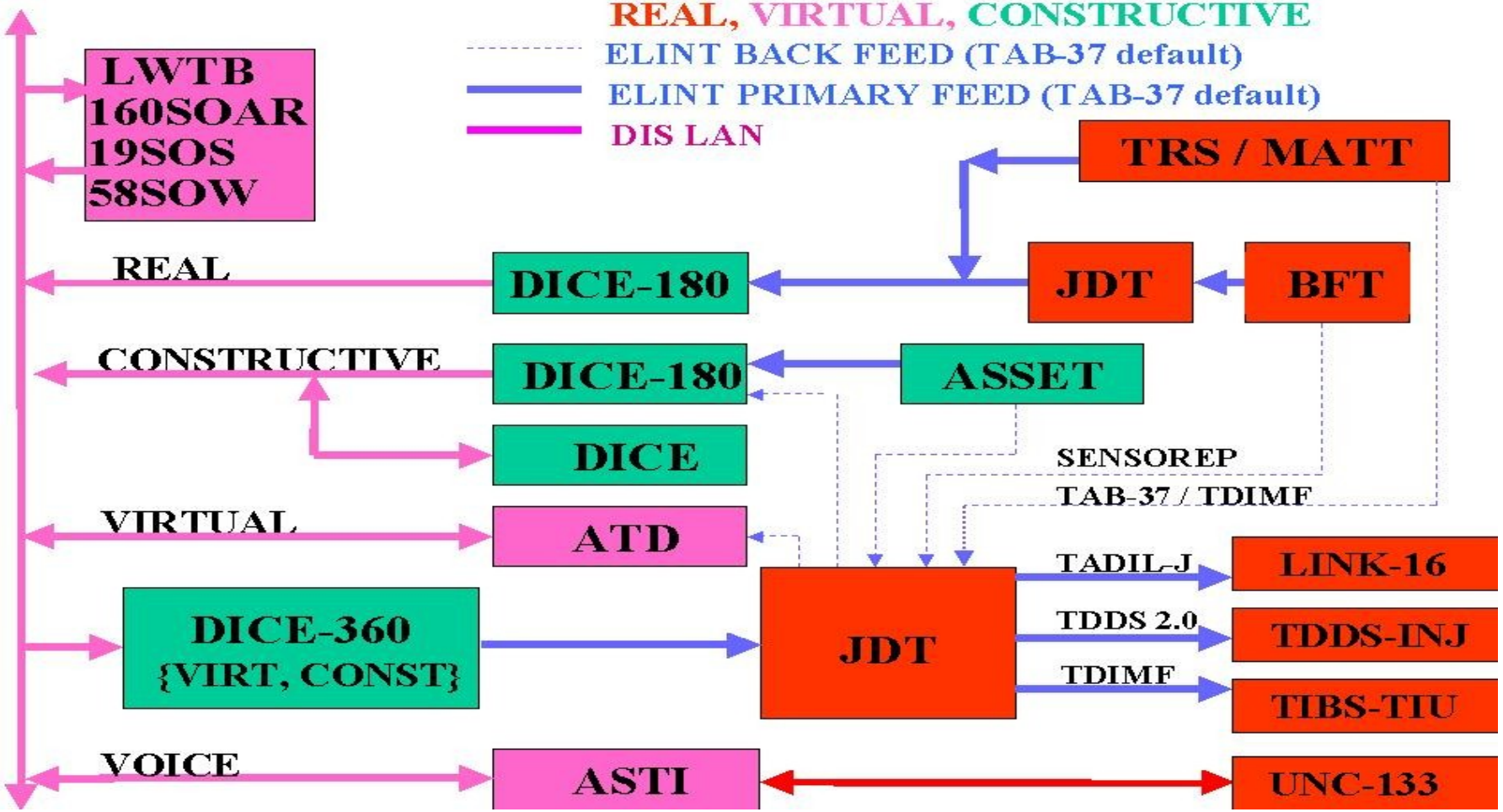
SOFSTARS ARCHITECTURE



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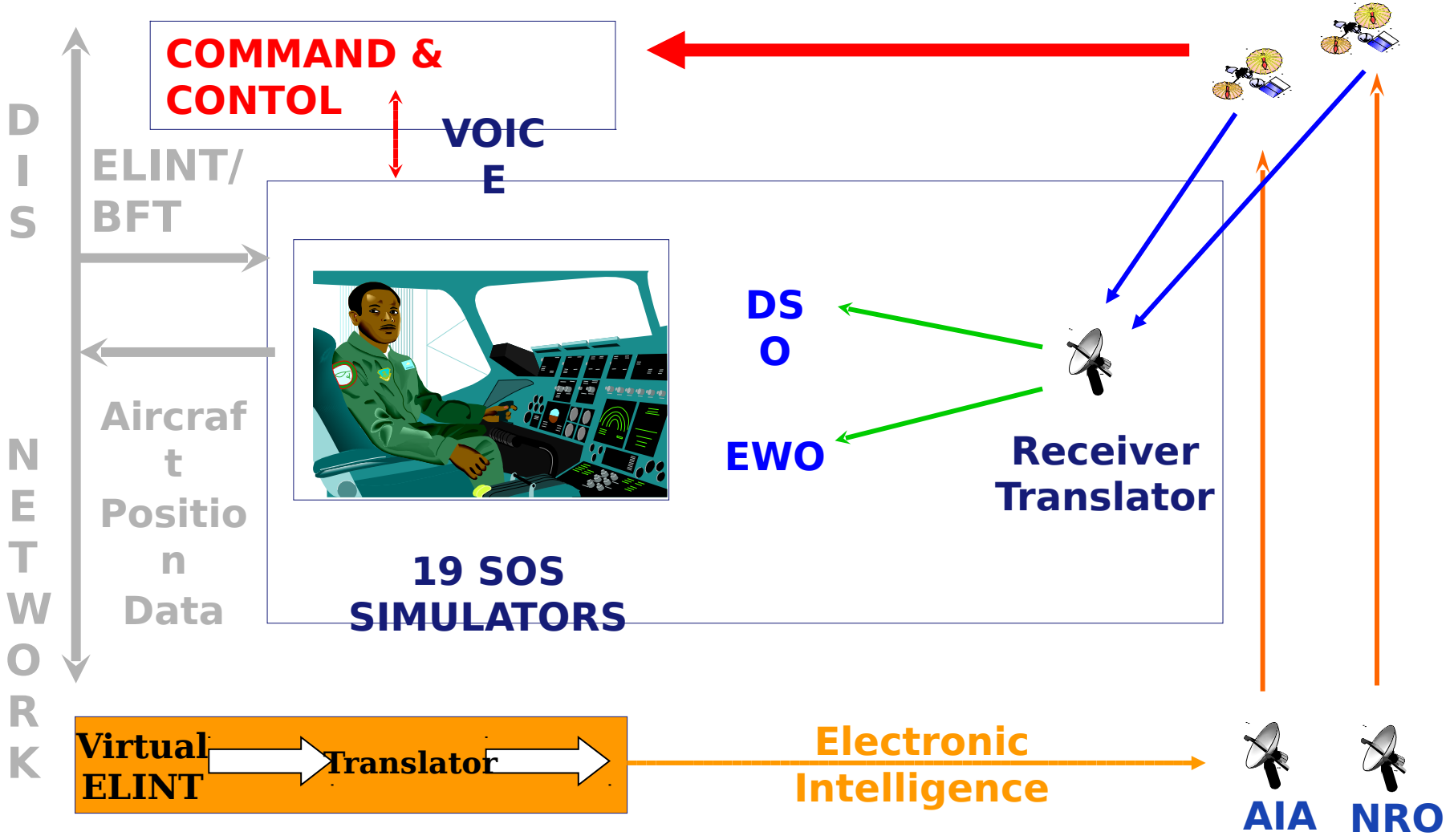
SOFSTARS

REAL-TIME THREAT INTEGRATION & DISPLAY



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"The Next Threat System" (TNTS) PROGRAM OVERVIEW

- TNTS includes built-in terrain occulting function in optical, radio, and radar frequency bands using 3 arc second DTED post spacing
- Includes dynamically calculated, local area terrain clutter
- Includes intelligent behavior, maneuvers, and tactics…seven formation types, single ship, Red and Blue forces
- Built to be compatible to bit-level accurate representations of defense systems avionics (ALR-69)
- No "canned" or recorded audio required…simulated threat radar patterns produce accurate audio using real-time pulse generation

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TNTS PROGRAM OVERVIEW

- TNTS can be easily integrated into existing flight simulators that use DIS entity standards…DIS PDU inadequacies overcome by physics-based radar emitter/mode modeling
- TNTS has recently been installed in an A-10 flight simulator at Davis-Monthan…test and SIMCERT in process
- TNTS software entirely government-owned… NOTHING is Proprietary
- Software built for inexpensive COTS O/S (Windows or VXWorks) and PC hardware host
- Life cycle software support/EWIR updates planned through government –managed TSSC (TBD)…preliminary users guide developed, software documentation in process

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Finishing Touches

- **Consider ending with a summary slide (tell them what you told them)**
- **Or, end with the recommendation slide (tell them what you want them to do)**
- **Remind the audience of the classification of the material you presented**
- **Thank them for their attention, and invite them to ask questions**

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FT BENNING

LAND WARRIOR TEST BED INTEGRATION

- LAND WARRIOR TEST BED SYSTEM
  - 10 SIT-DOWN AND 11 STAND-UP COMBAT SIMULATON
- DIRECT LINK TO MCKENNA MOUT SITE
- T-1 COMM/DATA LINK ESTABLISHED
  AWAITING ACCREDITDATION

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VIRTUAL REHEARSAL BENEFITS

- HQ AND TACTICAL LEVEL JOINT C2 MISSION OPERATIONS
- INTEGRATES “REAL WORLD” THREAT ENVIRONMENT VIA LIVE SATELLITE FEEDS
- ALLOWS REPLAY CAPABILITY--VIRTUAL “ROCK DRILL”
- REHEARSE IN ANY TERRITORY/AIRSPACE
- NO DECONFLICTION REQUIREMENTS (AIRSPACE OR RANGES)
- CAPABILITY TO INCORPORATE/TRACK LIVE ASSETS

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BOTTOM LINE

- TECHNOLOGY EXISTS NOW FOR INTEGRATED SOF OPERATIONS IN THE VIRTUAL ENVIRONMENT
- CURRENTLY BRIDGING LIVE OPERATIONS WITH SIMULATION
- PURSUSING PHYSICS-BASED, BIT-ACCURATE, CORRELATED THREAT SEVER
- THE SOF TRAINING AND MISSION REHEARSAL CENTER

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Sample Slide #2

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